

PUBLIC HEALTH REPORTS

VOL. 32

MARCH 16, 1917

No. 11

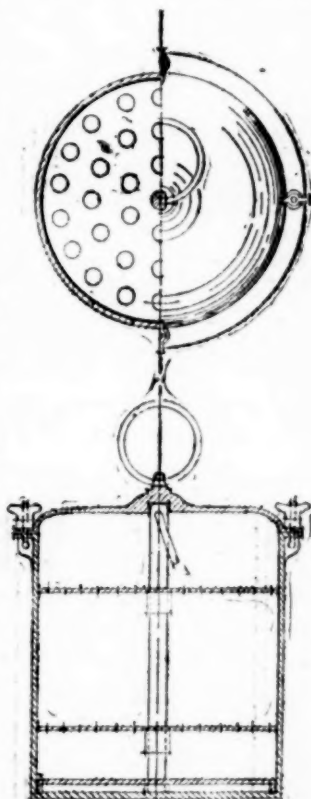
RACK AND DISINFECTOR FOR CLINICAL THERMOMETERS. A CONVENIENT PORTABLE APPARATUS.

By B. E. HOLSENDORF, Pharmacist, United States Public Health Service.

The necessity for a convenient portable container and disinfector to handle the large number of clinical thermometers very frequently required for use in taking the temperatures of passengers and crews undergoing quarantine inspection, as well as of persons detained for observation at a quarantine station or detention camp, has often been apparent. On many occasions, in quarantine work, the temperatures of scores of passengers are taken simultaneously, or as nearly so as the number of thermometers carried by the boarding or inspecting officer will permit. Since it is the usual practice to carry such thermometers in their individual cases, to prevent breakage, and to disinfect or cleanse each one before passing it to the passenger or member of the crew, repeating the operation after recording the temperature reading and before returning the thermometers to their cases, it can readily be seen that there is considerable labor involved and some loss of time incident to this process.

With a view of overcoming these difficulties, at least in a measure, the writer designed and had made a model of a container and rack having a capacity of 40 thermometers, which has been used successfully at the San Juan quarantine station for some months past.

As will be seen from the drawings, the thermometers are held securely but separately in place by means of two perforated disks, through which they pass, while a third disk serves as a bottom plate to prevent them from slipping through. This latter disk has a few

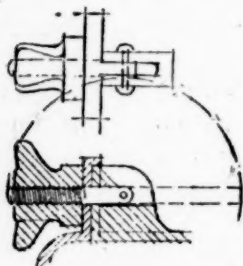


Upper.—Plan of container-rack and cover.
Lower.—Section through container.

perforations, so as to offer but little resistance and permit the rack to enter easily when the container is filled with the liquid. These perforations, however, are not coincident with those of the upper disks.

The center post, or main stem, not only serves as a frame to hold the disks of the rack together, but, with its ring inserted in the upper end, permits of its use as a handle. The thermometer does not come in contact with the hands of any one except the person whose temperature is being taken.

The container is simply a cylindrical jar, equipped with a pair of hinged thumbscrews for use in fastening on the lid or top, so that it will be absolutely water-tight. The lid should be provided with a rubber gasket. The lid has also a slot in the center, into which the main stem of the rack slips, thus preventing any movement of the rack in the container when the lid has been screwed on.



Section and elevation of a detail of sealing device.

The rack and container may be made of aluminum of medium weight or a good quality of enameled ware. The hinged thumbscrews and sockets, however, should be made of brass. The container of the one in use at present at San Juan quarantine station is a glass specimen jar, which serves the purpose very well for station use, but on account of its fragile character and liability to breakage, it is not well adapted for use aboard vessels. The metallic container is practically indispensable for use on boarding duty.

The method of using this apparatus, in order to obtain the best results, is as follows:

The rack is loaded with its quota of thermometers (for this model 40), each of which has been shaken so that the column of mercury registers not higher than normal. The container is then partially filled with a formalin solution (or whatever other disinfectant it is customary to use) to about four-fifths of its capacity. This has been shown by experience to be the quantity of solution necessary to completely submerge the thermometers, without slopping over, when the loaded rack is lowered into the container.

When the rack is inserted, the disinfecting solution will reach every part of each thermometer. The perforations in the disks, while holding the thermometers in place, permit free and thorough contact with the solution and an efficient disinfection. By giving the rack a twirling movement, the cleansing process may be made even more effective. It is also the usual practice to screw on the top of the container and keep the thermometers in the solution until a short time before they are required for use. The rack is then taken out and rinsed

with sterile water to remove the unpleasant taste or odor of the disinfectant, and the thermometers are allowed to dry in the rack without being touched with the hands.

If the thermometers are required for use aboard ship, the rack should be placed in a dry container, and the lid or top screwed on. The thermometers are then ready to be handed out to each passenger without further preparation.

A pair or several pairs of racks and containers should be provided for boarding officers at stations where temperatures of a considerable number of passengers or crews have to be taken. One container will hold the dry sterile thermometers and the other one a loaded rack in the disinfecting solution. These containers could be carried in a leather or canvas case and slung across the shoulder, as is done with field glasses.

The advantage of using the apparatus in pairs, one with the solution and the other dry, is that if but 40 or a lesser number of thermometers be required those in the dry container are available for immediate use, and if more than that number those in the rack in the solution jar may be removed, rinsed, and dried during the time that the first 40 are being passed around. The first 40 may in turn be loaded in their rack and placed in the disinfectant should a still larger number of thermometers be required.

All thermometers registering more than normal should be shaken down before being placed in the rack, thus doing away with the necessity of having to touch any of them to do this after they have been disinfected.

It is believed that this apparatus will not only save considerable time in routine practice at quarantine stations and in large hospitals, but that it will enable one to disinfect thermometers more thoroughly and with less danger of breakage than is possible under ordinary methods. In addition it will prevent them from becoming contaminated after disinfection through careless handling or by inclosing them in soiled thermometer cases.

PREVALENCE OF DISEASE.

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring.

UNITED STATES.

CEREBROSPINAL MENINGITIS.

Minnesota.

Collaborating Epidemiologist Bracken reported that during the period from December 26, 1916, to March 10, 1917, 33 cases of cerebrospinal meningitis, with 16 deaths, were notified in Minnesota, as follows: Chippewa County, Granite Falls Township, schoolgirl, sick December 26, 1916, died January 8, 1917. Faribault County, Blue Earth, schoolgirl, sick January 14, died January 21. Freeborn County, Albert Lea, butcher, sick January 18, died January 27. Hennepin County, Minneapolis, boy 2 years old, sick January 13, died January 23; boy 9 years old, sick February 8, died February 10; barber, sick February 12, recovered; prostitute, sick February 16, died February 22; locomotive fireman, sick February 17; schoolgirl, sick February 19; railroad laborer, sick February 20, recovered; girl 3 years old, sick February 21, died March 7; boy 3 years old, sick February 22, died February 26; schoolgirl, sick February 26, died March 7; girl 7 months old, sick February 28, died March 1; college man, sick February 3, improved; housewife, sick March 5, died March 10. Mower County, Moscow Township, farmer, sick March 2, improved. Ramsey County, St. Paul, railroad laborer, sick January 13, died January 16; negro 3 years old, sick February 10; girl 3 months old, sick February 19; foundryman, sick February 21; messenger, sick February 25; laborer, sick February 28; boy 5 years old, sick March 3; boy 6 years old, sick March 5, improved. Rice County, Faribault, girl 3 years old, sick February 8, died February 11. Rock County, Martin Township, girl 6 months old, sick February 3, died February 8. St. Louis County, Duluth, housewife, sick December 28, died January 7; schoolboy, sick January 25; schoolgirl, sick February 2; schoolgirl, sick February 14, recovered; dairyman, sick February 15, died February 16. Mountain Iron village, schoolboy, sick February 15, recovered.

CEREBROSPINAL MENINGITIS—Continued.**Hawaii Report for January, 1917.**

During January, 1917, two new cases of cerebrospinal meningitis were reported in Honolulu, Hawaii.

City Reports for Week Ended Feb. 24, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Akron, Ohio.....	2	1	New Orleans, La.....	1	.....
Birmingham, Ala.....	2	.....	Newport, Ky.....	1	1
Butler, Pa.....	1	1	New York, N. Y.....	7	2
Cleveland, Ohio.....	1	.....	Omaha, Nebr.....	1	2
Detroit, Mich.....	3	.....	Philadelphia, Pa.....	6	5
Dubuque, Iowa.....	1	1	Pittsburgh, Pa.....	3	.....
Duluth, Minn.....	2	.....	Providence, R. I.....	1	1
El Paso, Tex.....	.....	1	St. Louis, Mo.....	4	2
Fall River, Mass.....	1	.....	St. Paul, Minn.....	2	.....
Hartford, Conn.....	4	1	Steubenville, Ohio.....	1	.....
Kansas City, Kans.....	3	.....	Toledo, Ohio.....	1	.....
Kansas City, Mo.....	1	2	Wilmington, Del.....	1	.....
Los Angeles, Cal.....	1	1			

DIPHTHERIA.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 412.

ERYSIPELAS.**City Reports for Week Ended Feb. 24, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Alameda, Cal.....	1	.....	Kansas City, Mo.....	2	1
Allentown, Pa.....	1	.....	Los Angeles, Cal.....	2	1
Baltimore, Md.....	3	2	McKeesport, Pa.....	1	.....
Binghamton, N. Y.....	1	.....	Milwaukee, Wis.....	8	1
Boston, Mass.....	.....	6	Newark, N. J.....	11	1
Bridgeport, Conn.....	2	.....	New York, N. Y.....	.....	10
Brockton, Mass.....	2	.....	Omaha, Nebr.....	3	1
Buffalo, N. Y.....	9	2	Philadelphia, Pa.....	15	3
Chicago, Ill.....	36	4	Pittsburgh, Pa.....	16	2
Cincinnati, Ohio.....	3	1	Portland, Oreg.....	4	.....
Cleveland, Ohio.....	5	.....	Providence, R. I.....	.....	1
Columbus, Ohio.....	1	1	Rochester, N. Y.....	4	.....
Denver, Colo.....	3	.....	St. Louis, Mo.....	17	1
Detroit, Mich.....	6	1	St. Paul, Minn.....	4	1
Duluth, Minn.....	2	.....	San Francisco, Cal.....	5	.....
East Orange, N. J.....	1	.....	Schenectady, N. Y.....	2	.....
Harrisburg, Pa.....	1	.....	Springfield, Ill.....	1	.....
Hartford, Conn.....	2	1	Trenton, N. J.....	1	.....
Jackson, Mich.....	2	1	Williamsport, Pa.....	1	.....
Kalamazoo, Mich.....	2	2	Worcester, Mass.....	.....	1

LEPROSY.**City Report for Week Ended Feb. 24, 1917.**

During the week ended February 24, 1917, one case of leprosy was reported in San Francisco, Cal.

MALARIA.**City Reports for Week Ended Feb. 24, 1917.**

During the week ended February 24, 1917, one case of malaria was reported in Newark, N. J., one case and one death were reported in New Orleans, La., and four cases were reported in Sacramento, Cal.

MEASLES.

California—Los Angeles.

Senior Surg. Brooks reported that during the week ended March 3, 1917, 210 cases of measles were notified in Los Angeles, Cal. One hundred and forty-two cases were reported during the previous week, and 627 cases were reported during the month of February.

Kentucky—Louisville.

Passed Asst. Surg. Herring reported that during the period from February 15 to 28, 1917, 130 cases of measles were notified in Louisville, Ky.

Washington—Seattle.

Surg. Lloyd reported that during the week ended February 24, 1917, 74 cases of measles were notified in Seattle, Wash., making a total of 6,796 cases reported since the beginning of the epidemic, February 15, 1916.

See also Diphtheria, measles, scarlet fever, and tuberculosis, page 412.

PELLAGRA.

City Reports for Week Ended Feb. 24, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Birmingham, Ala.....	1	.....	Nashville, Tenn.....	1	.....
Charleston, S. C.....	.....	1	New Orleans, La.....	2	2
Lexington, Ky.....	.....	1	Norfolk, Va.....	.....	1

PNEUMONIA.

City Reports for Week Ended Feb. 24, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Allentown, Pa.....	1	.....	Lima, Ohio.....	1	1
Ann Arbor, Mich.....	2	1	Lincoln, Nebr.....	2	.....
Auburn, N. Y.....	5	5	Los Angeles, Cal.....	9	7
Baltimore, Md.....	17	27	Manchester, N. H.....	7	7
Binghamton, N. Y.....	3	4	McKeesport, Pa.....	1	1
Chicago, Ill.....	206	173	Medford, Mass.....	1	1
Cincinnati, Ohio.....	1	12	Newark, N. J.....	90	18
Cleveland, Ohio.....	20	34	New Castle, Pa.....	5	.....
Coffeyville, Kans.....	1	1	Newport, Ky.....	1	1
Detroit, Mich.....	7	26	Norristown, Pa.....	6	3
Dubuque, Iowa.....	4	4	Philadelphia, Pa.....	160	92
Duluth, Minn.....	9	.....	Pittsburgh, Pa.....	45	37
Flint, Mich.....	6	4	Reading, Pa.....	3	5
Grand Rapids, Mich.....	5	2	Rochester, N. Y.....	7	4
Harrison, N. J.....	2	.....	San Diego, Cal.....	1	.....
Jackson, Mich.....	2	1	Sandusky, Ohio.....	3	2
Johnstown, Pa.....	1	4	San Francisco, Cal.....	15	10
Kalamazoo, Mich.....	3	4	Schenectady, N. Y.....	6	1
Kansas City, Kans.....	2	1	Steelton, Pa.....	4	.....
Kansas City, Mo.....	13	31	Toledo, Ohio.....	2	5
La Crosse, Wis.....	1	1	Wichita, Kans.....	2	.....
Lancaster, Pa.....	2	.....	Wilkinsburg, Pa.....	1	6
Lexington, Ky.....	1	4			

POLIOMYELITIS (INFANTILE PARALYSIS).**City Reports for Week Ended Feb. 24, 1917.**

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Ann Arbor, Mich.....	1	.....	New Orleans, La.....	1	.....
Braddock, Pa.....	1	.....	New York, N. Y.....	1	.....
Cleveland, Ohio.....	2	1	Philadelphia, Pa.....	2	.....
Covington, Ky.....	2	.....	St. Paul, Minn.....	1	.....
Kansas City, Mo.....	3	2	Toledo, Ohio.....	1	.....

RABIES IN ANIMALS.**City Reports for Week Ended Feb. 24, 1917.**

During the week ended February 24, 1917, five cases of rabies in animals were reported in Buffalo, N. Y.; one case was reported in Detroit, Mich.; and three cases were reported in Niagara Falls, N. Y.

SCARLET FEVER.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 412.

SMALLPOX.**Connecticut.**

Collaborating Epidemiologist Black reported that during the week ended March 3, 1917, 21 cases of smallpox were reported in Connecticut, as follows: Berlin 4, Easton 7, Stonington 1, Waterbury 9.

Massachusetts—Worcester.

Collaborating Epidemiologist Kelley reported that 2 cases of smallpox were notified at Worcester, Mass., March 8 and 1 case March 14, 1917.

Minnesota.

Collaborating Epidemiologist Bracken reported that during the week ended March 10, 1917, 5 new foci of smallpox infection were reported in Minnesota, cases of the disease having been notified as follows: Kittson County, Hallock 1; Marshall County, Bigwoods Township 1; Ottertail County, Deer creek Township 5; Wilkin County, Rothsay 1; Wright County, French Lake Township 10.

Texas—Galveston.

Surg. Bahrenburg reported that 1 new case of smallpox was notified at Galveston, Tex., March 9, 1917.

SMALLPOX—Continued.

Oregon Report for January, 1917.

Place.	Cases.	Deaths.
Oregon (Jan. 1-31):		
Multnomah County.....	1	
Portland.....	13	
Total.....	14	

City Reports for Week Ended Feb. 24, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Ann Arbor, Mich.....	4		Muscatine, Iowa.....	1	
Birmingham, Ala.....	1		New Orleans, La.....	9	
Butte, Mont.....	6		Oakland, Cal.....	2	
Canton, Ohio.....	1		Oklahoma City, Okla.....	3	
Chicago, Ill.....	5		Omaha, Nebr.....	8	
Cleveland, Ohio.....	13		Portland, Oreg.....	3	
Columbus, Ohio.....	4		St. Joseph, Mo.....	9	
Danville, Ill.....	4		St. Louis, Mo.....	4	
Davenport, Iowa.....	1		St. Paul, Minn.....	2	
Detroit, Mich.....	5		Salt Lake City, Utah.....	1	
Duluth, Minn.....	1		San Diego, Cal.....	1	
Evansville, Ind.....	1		San Francisco, Cal.....	7	
Flint, Mich.....	1		Seattle, Wash.....	1	
Grand Rapids, Mich.....	1		Sioux City, Iowa.....	6	
Indianapolis, Ind.....	4		South Bend, Ind.....	1	
Little Rock, Ark.....	7		Springfield, Ill.....	1	
Lorain, Ohio.....	1		Toledo, Ohio.....	1	
Madison, Wis.....	1		Topeka, Kans.....	2	
Minneapolis, Minn.....	30		Zanesville, Ohio.....	1	

TETANUS.

City Reports for Week Ended Feb. 24, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Birmingham, Ala.....		1	Philadelphia, Pa.....	1	
Charleston, S. C.....		1	Portsmouth, Va.....		1

TUBERCULOSIS.

See Diphtheria, measles, scarlet fever, and tuberculosis, page 412.

TYPHOID FEVER.

State Reports for January, 1917.

Place.	New cases reported.	Place.	New cases reported.
Hawaii:		Oregon:	
Kauai.....	3	Lane County.....	1
Maui.....	1	Marion County.....	1
Oahu.....	2	Umatilla County.....	2
Honolulu.....	6	Multnomah County—	
Total.....	12	Portland.....	7
		Total.....	11

TYPHOID FEVER—Continued.

City Reports for Week Ended Feb. 24, 1917.

Place.	Cases.	Deaths.	Place.	Cases.	Deaths.
Albany, N. Y.	3	—	Los Angeles, Cal.	4	—
Allentown, Pa.	1	—	Lynn, Mass.	—	1
Ann Arbor, Mich.	1	—	Milwaukee, Wis.	4	—
Baltimore, Md.	7	—	Minneapolis, Minn.	3	—
Beaver Falls, Pa.	5	—	Nashville, Tenn.	1	—
Binghamton, N. Y.	1	—	Newark, N. J.	1	—
Birmingham, Ala.	6	—	New Castle, Pa.	7	—
Boston, Mass.	4	—	New York, N. Y.	23	10
Brookline, Mass.	1	—	Oakland, Cal.	4	—
Buffalo, N. Y.	4	—	Philadelphia, Pa.	2	—
Cairo, Ill.	1	1	Pittsburgh, Pa.	2	1
Cambridge, Mass.	1	—	Portland, Oreg.	5	1
Chicago, Ill.	2	1	Reading, Pa.	2	—
Cincinnati, Ohio.	1	—	Richmond, Va.	2	—
Cleveland, Ohio.	3	1	Rochester, N. Y.	1	—
Covington, Ky.	2	—	Rutland, Vt.	1	1
Cumberland, Md.	1	1	Saginaw, Mich.	1	—
Detroit, Mich.	3	2	St. Joseph, Mo.	1	—
Duluth, Minn.	5	—	St. Louis, Mo.	1	—
East Chicago, Ind.	1	—	St. Paul, Minn.	1	—
East Orange, N. J.	1	—	San Francisco, Cal.	6	—
El Paso, Tex.	1	1	Schenectady, N. Y.	1	—
Evansville, Ind.	1	—	Seattle, Wash.	2	—
Flint, Mich.	1	—	South Bend, Ind.	1	—
Fort Worth, Tex.	1	—	Toledo, Ohio.	3	—
Grand Rapids, Mich.	1	—	Trenton, N. J.	3	1
Hartford, Conn.	2	—	Troy, N. Y.	1	—
Kansas City, Mo.	2	—	Wilkesburg, Pa.	—	1
Lawrence, Mass.	1	—	Wilmington, Del.	2	1
Little Rock, Ark.	2	—	Zanesville, Ohio.	—	1

TYPHUS FEVER.

Texas.

Senior Surg. Pierce reported that during the week ended February 17, 1917, two cases of typhus fever were reported in Texas—one at Eagle Pass and one at Laredo. During the same week 40,395 persons were inspected. Of these, 3,961 were disinfected for destruction of vermin. Five sick persons were detained for observation, and 34 were refused admission on account of illness.

City Report for Week Ended Feb. 24, 1917.

During the week ended February 24, 1917, one case of typhus fever was reported in El Paso, Tex.

PREVENTABLE DISEASES.

Massachusetts Report for Week Ended Feb. 17, 1917.

	Cases reported.		Cases reported.
Cerebrospinal meningitis	3	Scarlet fever	163
Chicken pox	116	Septic sore throat	2
Diphtheria	188	Trachoma	1
German measles	41	Tuberculosis (pulmonary)	159
Malaria	1	Tuberculosis (other forms)	15
Measles	169	Typhoid fever	10
Mumps	169	Whooping cough	61
Ophthalmia neonatorum	48		

PREVENTABLE DISEASES—Continued.

Massachusetts Report for Week Ended Feb. 24, 1917.

	Cases reported.		Cases reported.
Cerebrospinal meningitis.....	1	Scarlet fever.....	156
Chicken pox.....	162	Septic sore throat.....	6
Diphtheria.....	174	Smallpox.....	1
Dog bite.....	2	Tetanus.....	1
Dysentery.....	1	Trachoma.....	1
German measles.....	46	Tuberculosis (pulmonary).....	161
Measles.....	461	Tuberculosis (other forms).....	11
Mumps.....	216	Typhoid fever.....	12
Ophthalmia neonatorum.....	45	Whooping cough.....	37

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS.

State Reports for January, 1917.

During the month of January, 1917, 17 cases of diphtheria and 12 cases of measles were reported in the Territory of Hawaii; and 15 cases of diphtheria, 682 cases of measles, and 111 cases of scarlet fever were reported in Oregon.

City Reports for Week Ended Feb. 24, 1917.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Over 500,000 inhabitants:										
Baltimore, Md.....	589,621	226	16	1	32	.....	13	.....	47	25
Boston, Mass.....	756,476	295	80	10	108	.....	40	.....	53	23
Chicago, Ill.....	2,497,722	869	176	15	516	3	492	35	241	69
Cleveland, Ohio.....	674,073	248	28	2	71	.....	21	.....	32	25
Detroit, Mich.....	571,784	224	100	6	28	1	192	5	24	22
Los Angeles, Cal.....	503,812	139	34	1	142	1	18	.....	29	23
New York, N. Y.....	5,602,841	1,833	259	26	534	18	181	.....	247	236
Philadelphia, Pa.....	1,709,518	731	89	23	38	.....	33	1	113	84
Pittsburgh, Pa.....	579,090	238	16	3	95	2	13	.....	26	22
St. Louis, Mo.....	757,399	217	90	10	387	7	75	1	53	19
From 300,000 to 500,000 inhabit- ants:										
Buffalo, N. Y.....	468,538	185	20	4	6	.....	15	.....	24	11
Cincinnati, Ohio.....	410,476	143	12	2	26	.....	2	.....	27	13
Jersey City, N. J.....	306,345	.....	15	.....	4	.....	16	.....	22	.....
Milwaukee, Wis.....	436,535	140	21	2	8	.....	111	3	13	6
Minneapolis, Minn.....	363,454	.....	14	.....	16	.....	18	.....	.....	.....
Newark, N. J.....	408,894	153	12	3	45	.....	17	.....	34	20
New Orleans, La.....	371,747	.....	11	.....	209	6	3	.....	30	28
San Francisco, Cal.....	463,516	166	25	4	411	4	48	.....	38	15
Seattle, Wash.....	348,639	46	.....	.....	168	.....	5	.....	9	4
Washington, D. C.....	363,989	140	22	.....	64	.....	9	1	14	14
From 200,000 to 300,000 inhabit- ants:										
Columbus, Ohio.....	214,878	72	2	.....	95	10	5	.....	11	6
Denver, Colo.....	260,800	73	5	.....	409	2	1	.....	.....	11
Indianapolis, Ind.....	271,708	.....	8	.....	202	.....	10	.....	7	.....
Kansas City, Mo.....	297,847	.....	17	.....	130	.....	88	3	8	6
Portland, Oreg.....	295,463	40	2	1	499	1	45	.....	9	3
Providence, R. I.....	254,960	93	19	2	9	1	7	1	.....	12
Rochester, N. Y.....	236,117	83	5	1	11	.....	59	3	19	2
St. Paul, Minn.....	247,232	52	70	1	31	.....	6	.....	18	8
From 100,000 to 200,000 inhabit- ants:										
Albany, N. Y.....	104,160	.....	3	.....	6	.....	4	.....	6	.....
Birmingham, Ala.....	181,562	80	4	2	356	1	2	.....	21	6
Bridgeport, Conn.....	121,579	40	3	1	12	.....	3	.....	6	4
Cambridge, Mass.....	112,981	.....	10	.....	10	1	5	.....	8	5

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended Feb. 24, 1917—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 100,000 to 200,000 inhabit- ants—Continued.										
Camden, N. J.	106,233		6		1		2		3	
Fall River, Mass.	128,366	59	3		82	1			14	
Fort Worth, Tex.	104,562	13	5	1	127		1		2	
Grand Rapids, Mich.	128,291	49	1		52		13		7	
Hartford, Conn.	110,900	57	6	2	2		6		2	
Lawrence, Mass.	100,560	23	3		2		1		1	
Lowell, Mass.	113,245	43	11	3	16		3		4	
Lynn, Mass.	102,425	37		2				1		1
Nashville, Tenn.	117,057	57	1		118	2	1		10	
New Bedford, Mass.	118,158	44			16		5		11	
New Haven, Conn.	149,685		4	1	27	1	4		10	
Oakland, Cal.	198,604	11	4		61		22		2	
Omaha, Nebr.	165,470	38	2	1	8		22		8	
Reading, Pa.	109,381	37	1		1		1		7	
Richmond, Va.	156,687	59	2		48		1		3	
Salt Lake City, Utah.	117,399	28			56		18	1		1
Springfield, Mass.	105,942	37	9	3	2		4		3	
Syracuse, N. Y.	155,624	56	2		32		17		6	
Tacoma, Wash.	112,770		2		12				15	
Toledo, Ohio.	191,554	73	6	1	11	1	74		22	
Trenton, N. J.	111,593	53	8	1	1				9	
Worcester, Mass.	193,314	67	4	1	4		18		6	
From 50,000 to 100,000 inhabit- ants:										
Akron, Ohio.	85,625		12		38		6		2	
Allentown, Pa.	63,505	17	8	1						
Atlantic City, N. J.	57,660	12	2		22		2		9	
Bayonne, N. J.	69,893		1				3		3	
Berkeley, Cal.	57,653	8			21		2		2	
Binghamton, N. Y.	53,973	31	12		12		5		3	
Brockton, Mass.	67,449	24	2				3			
Canton, Ohio.	60,852	16					2			
Charleston, S. C.	60,731	25	1							
Covington, Ky.	57,144	12	2				1		2	
Duluth, Minn.	91,495				5				2	
Elizabeth, N. J.	86,600	18	4		1		4		5	
El Paso, Tex.	63,705	52	2	1	14					
Erie, Pa.	75,195	1	1		1		7		5	
Evansville, Ind.	76,078	25	4	1	58				1	
Flint, Mich.	51,772	21	9	1	3		7		5	
Fort Wayne, Ind.	76,183	21	3							
Harrisburg, Pa.	72,015	22	6		5				7	
Hoboken, N. J.	77,214	18	4		2		15		7	
Johnstown, Pa.	68,529	24			9		2		2	
Kansas City, Kans.	99,437				5		30			
Lancaster, Pa.	59,853		2		4					
Little Rock, Ark.	57,343	30			94				1	
Malden, Mass.	51,155	13	2		2		2			
Manchester, N. H.	78,283	26			1		2		1	
Mobile, Ala.	58,221	29			6				2	
New Britain, Conn.	51,791	3								
Norfolk, Va.	89,612		1		40				2	
Oklahoma City, Okla.	92,943	20	1		122	1	3			
Passaic, N. J.	71,741	29	2				2		3	
Pawtucket, R. I.	50,411	34	3	1						
Portland, Me.	63,867	29			3		1		1	
Rockford, Ill.	55,185	16	2		11		3			
Sacramento, Cal.	66,845	21	1		1		1			
Saginaw, Mich.	55,642	21					2			
St. Joseph, Mo.	85,236	34	1				2		1	
San Diego, Cal.	53,310	25	1		6				8	
Schenectady, N. Y.	92,519	25	2		59		6	1	1	
Sioux City, Iowa.	57,078						3			
Somerville, Mass.	87,034	31	3	1	6		6		2	
South Bend, Ind.	68,946	21	1		1		29	3	2	
Springfield, Ill.	61,129	20	5	1	11		1			
Troy, N. Y.	77,916		2	1	53		3		4	
Wichita, Kans.	70,722				169		3			
Wilkes-Barre, Pa.	76,776	25	2		1		1		4	
Wilmington, Del.	94,265	47	2				2			
York, Pa.	51,636		8	1	1					

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS— Continued.

City Reports for Week Ended Feb. 24, 1917—Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 25,000 to 50,000 inhabit- ants:										
Alameda, Cal.	27,732	7			6		4			
Auburn, N. Y.	37,385	8	3				2			
Brookline, Mass.	32,730	5	1		3					1
Butler, Pa.	27,632	10	2	1	2					1
Butte, Mont.	43,425	29	4		13		2			3
Chelsea, Mass.	46,192	13								12
Chicopee, Mass.	29,319	7	2				2		2	2
Cumberland, Md.	26,074	5			4		1		1	
Danville, Ill.	32,261	12			2				1	
Davenport, Iowa	48,811						3			
Dubuque, Iowa	39,873				5		2		3	3
East Chicago, Ind.	28,713				1		1			
East Orange, N. J.	42,458	12	4	1	12		1			3
Elgin, Ill.	28,203	7			27		4			
Everett, Mass.	39,233		1				2			
Everett, Wash.	35,486	8			82		1		4	
Fitchburg, Mass.	41,781	108	3				2		1	
Galveston, Tex.	41,863	18								
Haverhill, Mass.	48,477		3	1	7				1	1
Jackson, Mich.	35,363	17	8	1	40		2		3	
Kalamazoo, Mich.	48,886	30			6		8			1
Kenosha, Wis.	31,576	3	1				1			
Kingston, N. Y.	26,771	12								1
Knoxville, Tenn.	38,676				23				5	
La Crosse, Wis.	31,677	16	1				2		1	1
Lexington, Ky.	41,097	24	2		26		4		1	
Lima, Ohio	35,384	8			1		4			
Lincoln, Nebr.	46,515	18	1		18		23			2
Lorain, Ohio	36,964				1		7			
Lynchburg, Va.	32,940	9	1		12	1			1	
Madison, Wis.	30,699						5			
McKeesport, Pa.	47,521	6	3				1			
Medford, Mass.	26,234	8			19					
Montclair, N. J.	26,318	4							1	3
Newburgh, N. Y.	29,603	12			1				2	
New Castle, Pa.	41,133									
Newport, Ky.	31,927	9								
Newport, R. I.	30,108	2					1			
Newton, Mass.	43,715	12			11					
Niagara Falls, N. Y.	37,353	12	1		10				2	1
Norristown, Pa.	31,401	15								1
Ogden, Utah	31,404	17	1	1	12		7			
Orange, N. J.	33,080	12	1		7				3	
Pasadena, Cal.	46,450	12			3				2	1
Perth Amboy, N. J.	41,185		5				2		4	
Pittsfield, Mass.	38,629	11	1						2	
Portsmouth, Va.	39,651	14			14		3			3
Quincy, Ill.	36,798	15	1		3				1	
Quincy, Mass.	38,136	13	1				1		2	2
Racine, Wis.	46,486	16	1		2	1	3			
Roanoke, Va.	43,281	15			85	1			1	2
San Jose, Cal.	38,902		1						1	
Steubenville, Ohio	27,445	10								
Superior, Wis.	46,226	7								
Taunton, Mass.	36,283	16	1				1		1	1
Topeka, Kans.	48,726	12			47					
Waltham, Mass.	50,570	7	1							
Watertown, N. Y.	29,894	5			11		3			
West Hoboken, N. J.	43,139	14			2		2		1	2
Wheeling, W. Va.	43,377	23			5		3			4
Williamsport, Pa.	33,809		1		23		2			
Wilmington, N. C.	29,892	6			11					1
Winston-Salem, N. C.	31,155	23			33	1	6		3	8
Zanesville, Ohio	30,863	16								1
From 10,000 to 25,000 inhabit- ants:										
Ann Arbor, Mich.	15,010	7	1		6		3			
Beaver Falls, Pa.	13,532				1					
Braddock, Pa.	21,685		1						3	

DIPHTHERIA, MEASLES, SCARLET FEVER, AND TUBERCULOSIS-- Continued.

City Reports for Week Ended Feb. 24, 1917--Continued.

City.	Popula- tion as of July 1, 1916 (estimated by U. S. Census Bureau).	Total deaths from all causes.	Diphtheria.		Measles.		Scarlet fever.		Tuber- culosis.	
			Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
From 10,000 to 25,000 inhabit- ants—Continued.										
Cairo, Ill.	15,791	12	2		128					4
Clinton, Mass.	13,075	1			4					
Colleyville, Kans.	17,548		1							
Conecord, N. H.	22,669	11	3							1
Galesburg, Ill.	24,276	14	1		2					
Harrison, N. J.	16,950								1	
Kearny, N. J.	16,950	10	1		3		1		2	
Kokomo, Ind.	20,930	11	10		7		1			
Long Branch, N. J.	15,395	4					2			
Marinette, Wis.	14,610	10								1
Morristown, N. J.	13,284	8					1			
Muscatine, Iowa.	17,500	4			17	3				
Nanticoke, Pa.	23,126	7					1		2	
Newburyport, Mass.	15,243	8	1		7					
New London, Conn.	20,985	10	3						2	2
North Adams, Mass.	22,019	10					2		2	1
Northampton, Mass.	19,926	9			4					1
Plainfield, N. J.	23,805	4					1			
Rocky Mount, N. C.	12,067	5			9		1			
Rutland, Vt.	14,831	6	1		11		11			
Sandusky, Ohio.	20,193	2	1				2			
Saratoga Springs, N. Y.	13,821	3							1	
Steelton, Pa.	15,548	6			1				1	
Wilkinsburg, Pa.	23,228	15							1	1
Woburn, Mass.	15,969	3								

¹ Population, Apr. 15, 1910; no estimate made.

FOREIGN.

CHINA.

Examination of Rats—Shanghai.

During the two weeks ended January 20, 1917, 514 rats were examined at Shanghai. No plague infection was found. The last plague-infected rat at Shanghai was reported found during the week ended May 6, 1916.

Plague-Infected Rats—Hongkong.

During the two weeks ended January 27, 1917, out of 3,746 rats examined at Hongkong, 6 were found plague infected.

CHOSEN (KOREA).

Cholera—Summary, August–December, 1916.

The total number of cases of cholera notified in Chosen (Korea) during the period from the outbreak of the disease in August, 1916, to December 29, 1916, was 1,998. Of these, 1,624 cases occurred in natives.

GREAT BRITAIN.

Examination of Rats, August–December, 1916—Bristol.

During the period from August 1 to December 31, 1916, 1,675 rats were examined at Bristol. No plague infection was found.

UNION OF SOUTH AFRICA.

Plague—Transvaal.

An outbreak of plague occurred in December, 1916, in the Transvaal, Union of South Africa, the focus of infection being a farm in the Potchefstroom district, about 90 miles distant from Johannesburg. From December 21, 1916, the date of the first known plague death, to January 7, 1917, eight fatal cases were notified. During the week ended January 14, 1917, two cases occurred on the infected farm, and during the same period a focus of infection was discovered on an adjoining farm, with two cases. The total number of cases reported to January 14, 1917, was 12, with 11 deaths.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER.

Reports Received During the Week Ended Mar. 16, 1917.¹

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
Chosen (Korea).....	Aug.-Dec. 29, 1916.	1,998		
India:				
Bassein.....	Dec. 31-Jan. 6.		1	
Bombay.....	Jan. 14-20.	4	3	
Calcutta.....	Dec. 31-Jan. 6.		20	
Madras.....	Jan. 14-20.	1	1	
Moulmein.....	Dec. 31-Jan. 6.		1	
Rangoon.....	Jan. 7-13.	1		
Philippine Islands:				
Manila.....	Jan. 21-27.	3		
Provinces:				
Albay.....	Jan. 21-27.	5	6	Jan. 21-27, 1917: Cases, 106; deaths, 84.
Capiz.....	do.	8	4	
Cavite.....	do.	4	3	
Iloilo.....	do.	11	11	
Leyte.....	do.	47	39	
Misamis.....	do.	1	1	
Negros Occidental.....	do.	6	9	
Rizal.....	do.	1		
Sorsogon.....	do.	23	11	

PLAGUE.

China:				
Hongkong.....	Jan. 21-27.	1	1	Present in vicinity. Jan. 1-23, 1917: Cases, 6; deaths, 2.
Egypt:				
Port Said.....	Jan. 25.	3		
Provinces—				
Fayoum.....	Jan. 24.	1		
Minieh.....	Jan. 25.	1	1	
India:				Dec. 31, 1916-Jan. 6, 1917: Cases, 15,763; deaths, 12,287.
Bassein.....	Dec. 31-Jan. 6.		1	
Bombay.....	Jan. 14-20.	17	13	
Madras Presidency.....	Jan. 14-20.	795	532	
Prome.....	Dec. 31-Jan. 6.		22	
Rangoon.....	Jan. 7-13.	19	16	
Toungoo.....	Dec. 31-Jan. 6.		1	
Indo-China:				
Saigon.....	Dec. 11-17.	6	2	
Siam:				
Bangkok.....	Nov. 30-Dec. 23.	6	6	
Straits Settlements:				
Singapore.....	Dec. 24-30.	2	2	
Do.....	Dec. 31-Jan. 6.	3	2	
Union of South Africa:				
Transvaal.....	Dec. 21-Jan. 14.	12	11	Outbreak on two adjoining farms in Potchefstroom district.

SMALLPOX.

Austria-Hungary:				
Hungary—				
Budapest.....	Jan. 14-20.	5	2	
China:				
Chungking.....	Jan. 7-13.			Present.
Harbin.....	Dec. 11-17.	1		
Hongkong.....	Jan. 7-27.	192	181	Present in vicinity. Present.
Mukden.....	Jan. 14-27.			
Tientsin.....	Jan. 28-Feb. 3.	2		
Tsingtao.....	Dec. 28-Jan. 27.	32		
Egypt:				
Cairo.....	Oct. 15-21.	1		
Germany:				
Bremen.....	Dec. 31-Jan. 20.	2		
Hamburg, district.....	Jan. 14-20.	33		In 15 localities.
India:				
Bombay.....	Jan. 14-20.	7	1	
Madras.....	Jan. 14-20.	14	4	
Indo-China:				
Saigon.....	Dec. 18-24.	1	1	

¹ From medical officers of the Public Health Service, American consuls, and other sources.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.**Reports Received During the Week Ended Mar. 16, 1917—Continued.****SMALLPOX—Continued.**

Place.	Date.	Cases.	Deaths.	Remarks.
Japan:				
Kobe.....	Jan. 20-Feb. 11.....	15	4	
Osaka.....	Jan. 22-Feb. 5.....	90	11	
Straits Settlements:				
Penang.....	Dec. 24-30.....	2		
Singapore.....	Dec. 24-30.....		1	
Switzerland:				
Basel.....	Jan. 21-Feb. 3.....	4		
Tunisia:				
Tunis.....	Jan. 27-Feb. 2.....	15		
Union of South Africa:				
Johannesburg.....	Dec. 3-30.....	20		
Do.....	Dec. 31-Jan. 13.....	1		

TYPHUS FEVER.

Austria-Hungary:				
Hungary—				
Budapest.....	Jan. 11-20.....	7	1	
China:				
Antung.....	Jan. 15-21.....	2		
Tsingtao.....	Dec. 28-Jan. 27.....	3		
Egypt:				
Alexandria.....	Jan. 20-Feb. 4.....	22	4	
Calro.....	Oct. 1-28.....	26	13	
Port Said.....	Oct. 1-14.....	3	2	
Germany:				
Bremen.....	Dec. 21-30.....		1	
Do.....	Dec. 31-Jan. 13.....	1	2	
Königsberg.....	Jan. 11-20.....	2	1	
Stettin.....	Jan. 21-27.....		1	
Mexico:				
Mexico City.....	Jan. 7-13.....	496		

Reports Received from Dec. 30, 1916, to Mar. 9, 1917.**CHOLERA.**

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay.....	Nov. 5-Dec. 23.....	13	12	
Calcutta.....	Oct. 15-Dec. 30.....		161	Oct. 8-14, 1916: Cases, 3.
Madras.....	Nov. 5-Dec. 16.....	5		
Do.....	Dec. 31-Jan. 6.....	3	2	
Rangoon.....	Nov. 26-Dec. 30.....	5	6	
Do.....	Dec. 31-Jan. 6.....	2	2	
Indo-China.....				June 1-July 31, 1916: Cases, 3,578; deaths, 2,578.
Provinces—				
Anam.....	June 1-30.....	446	367	
Do.....	July 1-Sept. 30.....	436	305	
Cambodia.....	June 1-30.....	13	9	
Do.....	July 1-Sept. 30.....	22	18	
Cochin-China.....	June 1-30.....	137	76	
Do.....	July 1-Sept. 30.....	98	59	
Kouang-Tcheou-Wan.....	do.....	216	200	
Laos.....	June 1-30.....	40	20	
Do.....	July 1-Sept. 30.....	437	416	
Tonkin.....	June 1-30.....	1,276	775	
Do.....	July 1-Sept. 30.....	909	709	
Japan:				
Fukuoka.....	Jan. 19.....	33		
Nagasaki.....	Nov. 27-Dec. 3.....	9	4	
Osaka.....	Nov. 16-Dec. 25.....	23	57	Aug. 13-Dec. 25, 1916: Cases, 971; deaths, 754.
Do.....	Dec. 26-Jan. 25.....	19	10	Jan. 6-16, 1917: Cases, 9. Aug. 13, 1916-Jan. 25, 1917: Cases, 990; deaths, 641.
Taiwan Island—				
Keelung.....	Nov. 13-Dec. 23.....	5	7	
Taihoku.....	do.....	14	5	
Yokohama.....	Nov. 6-Dec. 3.....	5	3	
Districts.....	do.....	1	1	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 30, 1916, to Mar. 9, 1917—Continued.

CHOLERA—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Java:				
East Java.....	Oct. 14-17.....	5	3	
West Java.....	Dec. 31-Jan. 20.....	23	9	Nov. 17-Dec. 14, 1916: Cases, 135; deaths, 65.
Batavia.....	Nov. 17-Dec. 7.....			
Philippine Islands:				
Manila.....	Oct. 29-Dec. 30.....	201	70	Not previously reported: Cases, 49; deaths, 2.
Do.....	Dec. 31-Jan. 20.....	4	2	Oct. 29-Dec. 9, 1916: Cases, 4,191; deaths, 2,030. Dec. 17-30, 1916: Cases, 282; deaths, 188. Dec. 31, 1916-Jan. 20, 1917: Cases, 380; deaths, 288.
Provinces:				
Albay.....	Oct. 29-Dec. 9.....	246	117	
Do.....	Dec. 17-30.....	26	10	
Do.....	Dec. 31-Jan. 20.....	30	24	
Antique.....	Nov. 18-25.....	8	7	
Do.....	Dec. 31-Jan. 6.....	2	4	
Bataan.....	Oct. 29-Dec. 9.....	93	77	
Do.....	Dec. 17-30.....	2	2	
Do.....	Dec. 31-Jan. 6.....	2	3	
Batangas.....	Oct. 29-Nov. 18.....	1	1	
Bohol.....	Oct. 29-Dec. 9.....	46	18	
Do.....	Dec. 17-23.....	1		
Bulacan.....	Oct. 29-Dec. 9.....	96	67	
Do.....	Dec. 17-23.....	10	6	
Camarines.....	Oct. 29-Dec. 9.....	61	37	
Capiz.....	do.....	45	34	
Do.....	Dec. 17-30.....	27	23	
Do.....	Dec. 31-Jan. 20.....	27	20	
Cavite.....	Oct. 29-Dec. 9.....	156	113	
Do.....	Dec. 17-30.....	24	13	
Do.....	Dec. 31-Jan. 20.....	30	19	
Cebu.....	Dec. 24-30.....	12	6	
Do.....	Jan. 7-13.....	4	2	
Iloilo.....	Oct. 29-Dec. 9.....	237	148	
Do.....	Dec. 17-30.....	37	31	
Do.....	Dec. 31-Jan. 20.....	38	31	
Laguna.....	Nov. 2-25.....	12	10	
Leyte.....	Oct. 29-Dec. 9.....	127	98	
Do.....	Dec. 17-30.....	90	62	
Do.....	Dec. 31-Jan. 20.....	118	95	
Masbate.....	Dec. 17-23.....	8	2	
Mindanao.....	Jan. 14-20.....	21	14	
Mindoro.....	Dec. 31-Jan. 13.....	7	6	
Misamis.....	Oct. 29-Dec. 9.....	126	79	
Do.....	Dec. 17-30.....	17	12	
Do.....	Jan. 1-20.....	12	9	
Negros Occidental.....	Oct. 29-Dec. 9.....	910	553	
Do.....	Dec. 24-30.....	11	5	
Do.....	Jan. 7-20.....	36	27	
Pampanga.....	Dec. 3-9.....	4	3	
Do.....	Dec. 17-23.....	6	5	
Do.....	Dec. 31-Jan. 6.....	1	1	
Rizal.....	Oct. 29-Dec. 9.....	27	14	
Do.....	Dec. 17-30.....	4		
Do.....	Dec. 31-Jan. 6.....	1		
Samar.....	Nov. 5-18.....	13	10	
Do.....	Dec. 31-Jan. 6.....	51	33	
Sorsogon.....	Oct. 29-Dec. 2.....	131	71	
Do.....	Dec. 17-23.....	1	2	
Tayabas.....	Nov. 5-18.....	1	1	
Zambales.....	Oct. 29-Dec. 2.....	7	1	
Straits Settlements:				
Singapore.....	Oct. 22-28.....	2	2	
Turkey in Asia:				
Aleppo.....	Dec. 9-15.....		1	Sept. 22-Dec. 12, 1916: Cases, 258; deaths, 117. July 14-Dec. 25, 1916: Cases, 9,542; deaths, 4,897.
Bagdad.....	Nov. 6-30.....	17	6	
Beirut.....	Dec. 7-12.....	2	1	
Tarsus.....	Nov. 7.....	1	1	
Turkey in Europe:				
Constantinople.....	Oct. 1-Nov. 17.....	8	1	

PLAGUE.

Brazil:				
Bahia.....	Nov. 5-Dec. 16.....	15	9	Jan. 1-Nov. 11, 1916: Cases, 14; deaths, 7. Nov. 5-11: Cases, 4; deaths, 2.
Do.....	Jan. 7-13.....	1	1	
Joazeiro.....				June 1-Nov. 6, 1916: Cases, 67 deaths, 51.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 30, 1916, to Mar. 9, 1917—Continued.

PLAGUE—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Ceylon:				
Colombo.....	Oct. 28-Dec. 30....	50	30	July 23-29, 1916: Cases, 9; deaths, 8.
Do.....	Dec. 31-Jan. 6....	2	2	
Chile:				
Tocopilla.....	Sept. 12.....	1	1	
China:				
Amoy, vicinity.....	Nov. 19-Dec. 2.....			Present.
Hongkong.....	Dec. 24-30.....	1	1	
Kansu Province— Taohow.....	Oct. 1-21.....		20	Pneumonic. Reported present in other localities in Province. Sept. 1-Nov. 30, 1916: Cases, 15 deaths, 57.
Ecuador.....				
Duran.....	Oct. 1-31.....	1		
Guayaquil.....	Sept. 1-30.....	21	7	
Do.....	Oct. 1-31.....	43	13	
Do.....	Nov. 1-30.....	88	35	
Milagro.....	do.....	1		
Nobol.....	Oct. 1-31.....	1	1	
Santa Rosa.....	Sept. 1-30.....	1	1	
Egypt.....				Jan. 1-Dec. 30, 1916: Cases, 1,702; deaths, 828.
Alexandria.....	Nov. 12-Dec. 25....	4	3	1 case on s. s. Proton, arrived Nov. 16, 1916, from Sidi Barand and Sollum.
Port Said.....	Dec. 11.....	1		
Do.....	Jan. 18.....	1	1	
India.....				Oct. 15-Dec. 23, 1916: Cases, 89,512; deaths, 67,068.
Bassein.....	Oct. 22-Dec. 30.....		7	Oct. 8-14, 1916: Cases, 13; deaths, 7. Received out of date. Original report lost on s. s. Arabia.
Bombay.....	Nov. 5-Dec. 30.....	73	59	
Do.....	Dec. 31-Jan. 13.....	16	14	
Karachi.....	Oct. 29-Dec. 23....	3	2	
Do.....	Dec. 24-30.....	1	1	
Do.....	Dec. 31-Jan. 6.....	1	1	
Madras.....	Nov. 19-Dec. 16....	6	3	Oct. 8-14, 1916: Cases, 1; deaths, 1.
Do.....	Dec. 30-Jan. 6.....	3	2	
Madras Presidency.....	Nov. 5-Dec. 16.....	4,003	2,677	Oct. 8-14, 1916: Cases, 534; deaths, 353. Sept. 17-23, 1916: Cases, 429; deaths, 280.
Do.....	Dec. 31-Jan. 13.....	1,632	1,114	
Mandalay.....	Oct. 28-Dec. 30.....		3	
Moulmein.....	Dec. 3-9.....		1	
Prome.....	Oct. 22-Dec. 30.....		177	
Rangoon.....	Oct. 28-Dec. 30.....	43	39	Oct. 1-7, 1916: Cases, 9; deaths, 9.
Do.....	Dec. 31-Jan. 6.....	10	8	
Toungoo.....	Oct. 22-Dec. 30.....		12	
Indo-China.....				June 1-30, 1916: Cases, 75; deaths, 5; July 1-Sept. 30, 1916: Cases, 161; deaths, 98.
Provinces—				
Anam.....	June 1-30.....	27	10	
Do.....	July 1-Sept. 30....	51	32	
Cambodia.....	June 1-30.....	17	16	
Do.....	July 1-Sept. 30....	33	31	
Cochin-China.....	June 1-30.....	31	18	
Do.....	July 1-Sept. 30....	53	19	
Kouang-Teheou-Wan..	July 1-31.....	27	6	
Saigon.....	Nov. 6-19.....	3	1	
Japan:				
Nagoya.....	Dec. 10-16.....	2		
Yokkaichi.....	Nov. 12-Dec. 16....	32	12	
Java:				
East Java.....				Aug. 26-Dec. 1, 1916: Cases, 101; deaths, 101.
Djocja Residency.....	Nov. 4-17.....	1	1	
Kediri Residency.....	Aug. 26-Nov. 3.....	18	16	
Madiun.....	do.....	8	8	
Paseroean Residency..	do.....	3	3	
Surabaya Residency...	Aug. 26-Dec. 1.....	30	31	
Surakarta Residency..	do.....	24	24	
Mid-Java—				
Samarang.....	do.....	1	1	
Siam:				
Bangkok.....	Oct. 22-Dec. 2.....	5	3	
Straits Settlements:				
Singapore.....	do.....	5	5	
Union of South Africa:				
Cape of Good Hope State— Uitenhage district.....	Oct. 31-Nov. 12....	2	2	Total, Oct. 23-Nov. 12, 1916: Cases, 24; deaths, 13.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 30, 1916, to Mar. 9, 1917—Continued.

SMALLPOX.

Place.	Date.	Cases.	Deaths.	Remarks.
Australia:				
New South Wales—				
Coonamble.....	Dec. 8.....	1		
Austria-Hungary:				
Austria—				
Vienna.....	Nov. 12-Dec. 9....	8	1	
Hungary—				
Budapest.....	Nov. 5-Dec. 23....	73	2	
Brazil:				
Bahia.....	Nov. 12-Dec. 23....	5		
Do.....	Jan. 7-13.....	1		
Rio de Janeiro.....	Nov. 12-Dec. 30....	50	12	
Do.....	Dec. 31-Feb. 5....	53	12	
Canada:				
British Columbia—				
Victoria.....	Feb. 11-17.....	1		
Manitoba—				
Winnipeg.....	.....do.....	3		
Ontario—				
Sarnia.....	Jan. 28-Feb. 10....	3		
Toronto.....	.....do.....	2		
Ceylon:				
Colombo.....	Dec. 31-Jan. 6....	1		
China:				
Amoy.....	Oct. 31-Dec. 9....			Present. Dec. 10-16, 1916: Cases, 3.
Antung.....	Jan. 8-14.....	2	1	
Canton.....	Nov. 1-Dec. 20....		14	
Chungking.....	Oct. 28-Dec. 30....			Present.
Do.....	Dec. 31-Jan. 6....			Do.
Dairen.....	Nov. 5-Dec. 30....	63	8	
Do.....	Dec. 31-Jan. 20....	22	8	In vicinity, Jan. 14-20, 1917, 1 case.
Foochow.....	Oct. 29-Dec. 16....			Present.
Harbin.....	Nov. 6-19.....	2		
Hongkong.....	Oct. 28-Dec. 30....	349	243	
Do.....	Dec. 31-Jan. 6....	69	40	
Mukden.....	Dec. 9-30.....			Do.
Do.....	Dec. 31-Jan. 13....			Do.
Nanking.....	Nov. 12-25.....			Do.
Tientsin.....	Dec. 17-30.....	1	1	
Tsingtao.....	Dec. 1-9.....	3		
Cuba:				
Casa Blanca.....	Jan. 12.....	1		Vicinity of Habana. Case landed Jan. 1, 1917, from s. s. Alfonso XII, from Santander, Spain.
Ensenada.....	Jan. 10.....	1		In Santa Clara Province. Case landed from s. s. Montevideo from Barcelona, via Las Palmas, Canary Islands, and Porto Rico; arrived at Habana Jan. 6, 1917.
Guanabacoa.....	Jan. 9.....	1		Vicinity of Habana. Case landed from s. s. Montevideo.
Habana.....	Jan. 10-20.....	2		At Mariel quarantine station. From s. s. Montevideo.
Ecuador:				
Guayaquil.....	Nov. 1-30.....	10	1	
Egypt:				
Alexandria.....	Dec. 25-31.....		3	
Do.....	Jan. 8-14.....	1	1	
Cairo.....	June 11-July 1....	50	20	
Do.....	July 2-Sept. 9....	59	20	
Port Said.....	June 11-17.....	1	1	
Do.....	Aug. 20-Sept. 9....	2	1	
France:				
Marseille.....	Oct. 1-Dec. 31....		16	
Paris.....	Dec. 17-24.....	1		
Germany:				
Hamburg, district.....	Dec. 31-Jan. 6....	22		In 12 localities.
Great Britain:				
Liverpool.....	Feb. 4-10.....	1		
Greece:				
Athens.....	Jan. 1-15.....		5	
Hawaii:				
Honolulu.....	Jan. 9.....	1		From s. s. Tenyo Maru from oriental ports.
Do.....	Jan. 21.....	1		From s. s. Ecuador from Hongkong.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 30, 1916, to Mar. 9, 1917—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
India:				
Bombay.....	Dec. 10-30.....	5	1	Oct. 8-14, 1916: Cases, 3; deaths, 3. Received out of date. Original report lost on s. s. Arabla.
Do.....	Dec. 31-Jan. 13.....	12	4	
Calcutta.....	Nov. 5-Dec. 2.....	2	2	
Karachi.....	Dec. 31-Jan. 13.....	2	.....
Madras.....	Nov. 5-Dec. 16.....	22	8	
Do.....	Dec. 31-Jan. 13.....	19	8	
Moulmein.....	Oct. 28-Nov. 4.....	.....	4	
Rangoon.....	Oct. 28-Dec. 30.....	17	1	
Do.....	Dec. 31-Jan. 6.....	.....	1	
Indo-China:				June 1-30, 1916: Cases, 53; deaths, 11. July 1-Sept. 30, 1916: Cases, 157; deaths, 83.
Provinces—				
Anam.....	June 1-30.....	4	1	
Do.....	July 1-Sept. 30.....	22	10	
Cambodia.....	June 1-30.....	11	4	
Do.....	July 1-Sept. 30.....	14	6	
Cochin-China.....	June 1-30.....	19	5	
Do.....	July 1-Sept. 30.....	81	35	
Laos.....	Aug. 1-Sept. 30.....	19	16	
Tonkin.....	June 1-30.....	19	1	
Do.....	July 1-Aug. 31.....	11	5	
Saigon.....	Nov. 6-Dec. 10.....	25	6	
Japan:				
Kobe.....	Nov. 28-Dec. 10.....	4	1	
Do.....	Jan. 1-28.....	25	5	
Java:				
East Java.....	.....	.....	.....	Sept. 16-Dec. 1, 1916: Cases, 82; deaths, 2.
Surabaya.....	Nov. 4-10.....	1	.....	Sept. 16-Dec. 1, 1916: Cases, 161; deaths, 18.
Mid-Java.....	.....	.....	.....	Sept. 29-Dec. 14, 1916: Cases, 366; deaths, 50.
Samarang.....	Nov. 4-10.....	3	.....
West Java.....	.....	.....	.....
Batavia.....	Sept. 29-Dec. 14.....	43	8	
Mexico:				Present; also present in vicinity.
Durango.....	Feb. 17.....	.....	.....
Mexico City.....	Dec. 10-30.....	20	.....
Do.....	Dec. 31-Jan. 6.....	6	.....
Nuevo Laredo.....	Dec. 10-30.....	1	.....
Portugal:				
Lisbon.....	Nov. 19-Dec. 2.....	6	.....
Portuguese East Africa:				
Lourenco Marques.....	Sept. 1-30.....	.....	1	
Russia:				
Archangel.....	Nov. 25-Dec. 29.....	6	1	
Moscow.....	Oct. 16-Dec. 18.....	43	12	Nov. 13-25, 1916: Cases, 35; deaths, 8.
Petrograd.....	Oct. 8-Nov. 25.....	95	31	
South Africa:				
Johannesburg.....	Nov. 26-Dec. 2.....	15	.....
Spain:				
Cadix.....	Nov. 1-Dec. 31.....	.....	3	Jan. 1-Dec. 31, 1916: Deaths, 405.
Madrid.....	.....do.....	.....	141	
Malaga.....	Sept. 1-Nov. 30.....	.....	15	
Seville.....	Nov. 1-30.....	.....	22	
Valencia.....	Nov. 19-Dec. 23.....	5	1	
Do.....	Jan. 14-20.....	1	.....
Straits Settlements:				
Penang.....	Oct. 28-Dec. 23.....	14	3	
Singapore.....	Nov. 19-Dec. 23.....	3	1	
Switzerland:				
Basel.....	Nov. 5-11.....	1	.....
Do.....	Dec. 31-Jan. 20.....	9	.....
Tunisia:				
Tunis.....	Nov. 25-Dec. 15.....	51	27	
Do.....	Dec. 30-Jan. 26.....	33	13	
Turkey in Asia:				
Trebizond.....	Nov. 11-Dec. 30.....	1	1	
Union of South Africa:				
Johannesburg.....	Sept. 10-Nov. 28.....	25	.....
On vessel:				
S. S. Nippon Maru.....	Jan. 22.....	2	.....	Landed at Yokohama quarantine.
Do.....	Jan. 24-Feb. 3.....	9	3	En route to Honolulu. Vessel from oriental ports.

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 30, 1916, to Mar. 9, 1917—Continued.

TYPHUS FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Argentina:				
Rosario.....	Nov. 1-30.....		1	
Austria-Hungary:				
Austria—				
Vienna.....	Nov. 5-Dec. 30.....	21	2	
Do.....	Dec. 31-Jan. 6.....	3		
Hungary—				
Budapest.....	Nov. 5-Dec. 30.....	3	1	
Belgium:				
Ghent.....	Oct. 29-Nov. 4.....		1	
Liege.....	do.....		1	
China:				
Antung.....	Nov. 27-Dec. 10.....	6		
Hankow.....	Nov. 12-18.....	1		
Tientsin.....	Oct. 29-Nov. 4.....	1		
Cuba:				
Santiago.....	Dec. 7-13.....	1	1	
Egypt:				
Alexandria.....	Nov. 12-Dec. 31.....	28	12	Nov. 19-25, 1916: 1 case; Dec.
Do.....	Jan. 1-28.....	51	13	17-23, 1916: Cases, 4.
Cairo.....	June 11-July 1.....	275	142	
Do.....	July 2-Sept. 30.....	259	136	
Port Said.....	June 11-17.....	29	9	
Do.....	July 2-Sept. 2.....	7	6	
Germany:				
Berlin.....	Oct. 15-Dec. 23.....		7	
Bremen.....	Oct. 22-Nov. 18.....	1	2	
Frankfort-on-Main.....	Nov. 12-18.....		1	
Königsberg.....	Nov. 12-Dec. 23.....	5	5	
Do.....	Dec. 31-Jan. 13.....	3	1	
Nuremberg.....	Oct. 29-Nov. 11.....	3		
Great Britain:				
Cork.....	Jan. 7-Feb. 3.....	1	1	
Glasgow.....	Dec. 3-30.....	4		
Do.....	Jan. 7-13.....		1	
Greece:				
Saloniki.....	Nov. 7-Dec. 18.....		31	
Java:				
East Java.....				Sept. 16-Nov. 3, 1916: Cases, 9.
Mid-Java.....				Sept. 16-Dec. 1, 1916: Cases, 65;
Samarang.....	Nov. 4-Dec. 1.....	10		deaths, 7.
West Java.....				Sept. 29-Dec. 11, 1916: Cases, 159;
Batavia.....	Sept. 29-Dec. 7.....	121	11	deaths, 12.
Mexico:				
Aguascalientes.....	Dec. 22.....			Epidemic.
Ciudad Juarez.....				July, 1916-Feb. 5, 1917: Cases,
				100 (estimated).
Durango.....	Dec. 12.....			Present.
Do.....	Jan.-Feb.....			Present. Estimated deaths
Mexico City.....	Dec. 3-30.....	835		daily, about 25. Present
Do.....	Dec. 31-Jan. 6.....	162		throughout year 1916.
Nuevo Laredo.....	Dec. 10-16.....	4		July 1-Dec. 16, 1916: Cases, 28.
Netherlands:				
Rotterdam.....	Nov. 26-Dec. 30.....	8		
Russia:				
Archangel.....	Nov. 25-Dec. 29.....	29	9	
Moscow.....	Oct. 16-Nov. 25.....	55	4	
Petrograd.....	Oct. 8-Dec. 2.....	130	42	
Spain:				
Madrid.....	Nov. 1-Dec. 31.....		3	Jan. 1-Dec. 31, 1916: Deaths, 35.
Sweden:				
Stockholm.....	Nov. 23-Dec. 4.....	1		
Do.....	Dec. 31-Jan. 6.....	3		
Switzerland:				
Zurich.....	Dec. 3-9.....	1		
Do.....	Jan. 7-13.....	1		
Tunisia:				
Tunis.....	Dec. 16-22.....	1		
Turkey in Asia:				
Haila.....	Oct. 16-22.....	1		
Trebizond.....	Dec. 17-30.....	3	3	

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER—Continued.

Reports Received from Dec. 30, 1916, to Mar. 9, 1917—Continued.

YELLOW FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Espirito Santo, State.....	Jan. 27-Feb. 3.....	11	4	
Ecuador:				
Babahoyo.....	Nov. 1-30.....	1	1	
Chobo.....	do.....	1		
Duran.....	Oct. 1-31.....	1		
Guayaquil.....	Sept. 1-30.....	17	5	
Do.....	Oct. 1-31.....	15	12	
Do.....	Nov. 1-30.....	6	3	
Milagro.....	Sept. 1-30.....	1		
Do.....	Oct. 1-31.....	2	1	
Gold Coast.....				In 1915: Cases, 2; deaths, 2. European and native.

X